Customer No. 24498

Listing and Amendments to the Claims

This listing of claims will replace the claims that were published in the PCT Application and annexed to the International Preliminary Examination Report:

- 1.(currently amended) A device for processing (30) information in a database (5), comprising:
- means for the automatic selection (31) of data of the database (5) according to selection criteria,
- and means for automatically arranging (32) saidthe selected data in a representation space (40) provided for the attention of at least one user, saidthe space (40) comprising a plurality of positions which can receive elements that are representative of the data,

characterized in that wherein it comprises:

means for pre-defining (33) at least one related representation area (A, A') within saidthe representation space (40), formed by activated positions, saidthe representation space including at least one complementary area (CA) having no data representation, formed by deactivated positions,

means for specifying (34) at least one data bootstrapping element for each of saidthe related areas (A, A'),

means for positioning (35) saidthe bootstrapping element at a bootstrapping position (P, P') in saidthe related area (A, A') corresponding to saidthe element,

means for automatically and successively determining (36) new data elements from at least a the data element[s] already positioned in saidthe related area (A, A'), in accordance with at least one proximity order relation based on contents of saidthe data,

and means for automatically and successively positioning (37) said of at least a part of the new data elements in said the related area (A, A'), at positions neighboring the positions occupied by the data elements already positioned, if these positions not be already occupied by elements already positioned.

said selection means (31) including the initial specification (34) and successive determination (36) means, and saidthe arrangement means (32) including the predefinition (33), bootstrapping element positioning (35) and successive positioning (37) means.

Customer No. 24498

2. (currently amended) The information processing device (30) as claimed in claim 1, characterized in that wherein saidthe successive determination (36) and successive positioning (37) means are provided to form neighborhood cards (NEIGH2) centered on saidthe elements already positioned, each of saidthe neighborhood cards (NEIGH2) centered on one of saidthe elements (Fi) already positioned giving elements neighboring saidthe element in accordance with saidthe proximity order relation, and to select saidthe new elements from saidthe neighboring elements and to place them in saidthe related area (A2) corresponding to saidthe element (Fi) already positioned at positions neighboring saidthe element.

PF030181

- 3. (currently amended) The information processing device (30) as claimed in claim 2, eharacterized in that wherein saidthe successive determination (36) and successive positioning (37) means are provided to place saidthe neighboring elements at positions relative to saidthe element (Fi) in saidthe related area (A2), which correspond to the positions relative to saidthe element (Fi) of saidthe neighboring elements in saidthe neighborhood card (NEIGH2).
- 4. (currently amended) The information processing device (30) as claimed in claim[s] 2 or 3, characterized in that wherein saidthe successive determination (36) and successive positioning (37) means are provided to supply saidthe neighborhood cards (NEIGH) to representation means (11) for the attention of saidthe user.
- 5. (currently amended) The information processing device (30) as claimed in claim 1 any one of the preceding claims, characterized in that wherein saidthe successive determination means (36) are provided to exclude from the new data elements, saidthe data elements already positioned, so as to represent, at the most once, each of saidthe data elements in saidthe representation space (40).

PF030181

Customer No. 24498

6. (currently amended) The information processing device (30) as claimed in claim 1 any one of the preceding claims, characterized in that wherein saidthe successive determination (36) and successive positioning (37) means are provided to determine and position saidthe new elements as and when there are selections by saidthe user, in saidthe representation space (40), of positions neighboring saidthe positions occupied by the data elements already positioned.

- 7. (currently amended) The information processing device (30) as claimed in claim 1 any one of the preceding claims, characterized in that wherein saidthe successive determination means (36) are intended to use, for the proximity order relation, at least one of the relations based on: a number of identical terms in saidthe contents, a number of similar terms for a predefined part of saidthe contents, a difference in dates in saidthe contents, a number of similar graphic patterns in saidthe contents, and a number of similar sound patterns in saidthe contents.
- 8. (currently amended) The information processing device (30) as claimed in claim 1 any one of the preceding claims, characterized in that wherein saidthe initial specification means (34) are provided to specify said bootstrapping element according to a user profile.
- 9. (currently amended) The information processing device (30) as claimed in claim 1 any one of the preceding claims, characterized in that wherein the means for pre-defining (33) said the related area (A, A') are provided to allow said user to construct said the related area.
- 10. (currently amended)The information processing device (30) as claimed in claim 1 any one of the preceding claims, characterized in that wherein the initial specification means (34) are provided, in case of definition of several related areas (A, A') by the predefinition means (33), to specify a first data bootstrapping element in one of saidthe related areas, then to specify the other bootstrapping elements from the first bootstrapping element by means of saidthe proximity order relation.

Customer No. 24498

- 11. (currently amended) An audiovisual apparatus (MAST, SLAV), eharacterized in that wherein it comprises a processing device (30) in accordance with the any one of claim[s] 1[-10], saidthe apparatus being preferentially chosen from a television set, a personal digital assistant and a personal computer.
- 12. (currently amended) A method for processing information in a database (5), comprising the following steps:
- automatic selection of data from the database (5) according to selection criteria,
- and automatic arrangement of saidthe selected data, in a representation space (40) provided for the attention of at least one user, saidthe space (40) comprising a plurality of positions that can receive elements that are representative of the data,

characterized in that wherein it comprises the steps of:

- pre-defining at least one representation related area (A, A') within saidthe representation space (40), formed by activated positions, saidthe representation space comprising at least one complementary area (CA) at saidthe related area without data representation, formed by deactivated positions,
- specifying at least one data bootstrapping element for each of saidthe related areas (A, A'),
- positioning saidthe bootstrapping element at a bootstrapping position (P,
 P') in saidthe related area (A, A') corresponding to saidthe element,
- automatically and successively determining new data elements from at least a data element[s] already positioned in saidthe related area (A, A'), in accordance with at least one proximity order relation based on contents of saidthe data,
- and automatically and successively positioning said of at least a part of new data elements in said the related area (A, A') at positions neighboring the positions occupied by the data elements already positioned, if these positions not be already occupied by elements already positioned,

Customer No. 24498

PF030181

said selection step including the initial specification and successive determination steps, and saidthe arrangement step including the predefinition, bootstrapping element positioning and successive positioning steps

, said information processing method being preferentially implemented by means of an information processing device (30) in accordance with any one of claims 1-10.

13. (currently amended) A computer program product, eharacterized in that wherein it comprises program code instructions for the execution of the steps of the method as claimed in claim 12 when saidthe program is executed on a computer.